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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 1 OF 5

### Complete if Known

Application Number - 10/005,438

Filing Date - Dec. 3, 2001

First Named Inventor - Tse Wen Chang

Group Art Unit - 1642

Examiner Name - S. UNGAR

Attorney Docket Number TNX95-2ABB

### U.S. PATENT DOCUMENTS

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	Number Code	Kind (if known)			
	<del>4973478</del>	<del>B1</del>	<del>Gauldie, et al.</del>	<del>05/24/1989</del>	
	<del>5004605</del>	<del>B1</del>	<del>Hershenson, et al.</del>	<del>04/02/1991</del>	
	<del>5460811</del>	<del>B1</del>	<del>Goeddel, et al.</del>	<del>10/24/1995</del>	
	<del>5468809</del>	<del>B1</del>	<del>Revel, et al.</del>	<del>11/21/1995</del>	
	<del>5468808</del>	<del>B1</del>	<del>Revel, et al.</del>	<del>11/21/1995</del>	
	<del>5468807</del>	<del>B1</del>	<del>Revel, et al.</del>	<del>11/21/1995</del>	

### FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation
	Office	Number	Kind Code (if known)				
	<del>EP</del>	<del>0083069</del>	<del>B1</del>	<del>Itch, et al.</del>	<del>08/11/1987</del>		
	<del>EP</del>	<del>0064681</del>	<del>A2</del>	<del>Taniguchi, et al.</del>	<del>11/17/1982</del>		
	<del>EP</del>	<del>0487418</del>	<del>A1</del>	<del>Bumett, et al.</del>	<del>01/22/1992</del>		
	<del>WO</del>	<del>9118353</del>	<del>A1</del>	<del>Varoché, et al.</del>	<del>10/31/1991</del>		

Examiner Signature	<i>Bryan Clark</i>	Date Considered	4/12/06
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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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SHEET 2 OF 5

## **Complete if Known**

Application Number **10/005,438**

Filing Date **Dec. 3, 2001**

First Named Inventor - **Tse Wen Chang**

Group Art Unit **1642**

Examiner Name **S. UNGAR**

Attorney Docket Number **TNX95-2ABB**

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	Number Code	Kind (if known)			
	<del>5015730</del>	<del>B1</del>	<del>Friesen, et al.</del>	<del>05/14/1991</del>	<b>DUPLICATE</b> <i>Duplicate</i>
	<del>4289689</del>	<del>B1</del>	<del>Friesen, et al.</del>	<del>09/15/1981</del>	
	<del>5428130</del>	<del>B1</del>	<del>Capon, et al.</del>	<del>06/27/1995</del>	
	<del>5348053</del>	<del>B1</del>	<del>Landolfi</del>	<del>09/20/1994</del>	

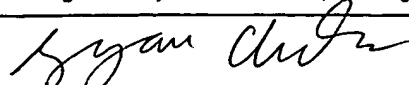
## **FOREIGN DOCUMENTS**

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation
	Office	Number	Kind Code (if known)				

Examiner Signature		Date Considered	<b>9/12/06</b>
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		Application Number 10/005,438 Filing Date Dec. 3, 2001 First Named Inventor Tse Wen Chang Group Art Unit 1642 Examiner Name S. UNGAR	
SHEET	3	OF	5
		Attorney Docket Number TNX95-2ABB	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	T 2
		<del>Huston, J.S. et al., Methods in Enzymology, 203:46-88</del> <i>Duplicate</i>	
sc		Landolfi, N.F., J. Immunol, 146:915-919 (1991), Chimeric IL-2/Ig Molecule.	
		<del>Petermans, A., et al., Analytical Biochemistry, 163(2):470-75</del> <i>Duplicate</i>	
sc		Baron, E. and Narula S., Biotechnology, 10:179-190, 1990, From cloning to a commercial realization: Human alpha interferon.	
		Bocci, V., Interferon, 4:47-72, 1985, Distribution, catabolism and pharmacokinetics of interferons.	
		Bohoslawec, O. et al., J. Interferon Res., 6:207-213, 1986, Pharmacokinetics and tissue distribution of recombinant human alpha A, D, A/D(Bgl), and I interferons and mouse alpha-interferon in Mice.	
		Bonetti, A. and Kim, S. Cancer Chemother Pharmacol. 33:258-261, 1993, Pharmacokinetics of an extended-release human interferon alpha-2b formulation.	
		Brown, K.D. Genetic Engineering News, 15:1-35, 1995, Novel emerging therapeutics target the hepatitis C virus.	
		Brunt, J.V., Biotechnology, 7:549, 1989, Interferon trials proliferate.	
		Cantell, K. et al., Methods in Enzymology, 78A:29-38, Academic Press, 1981.	
		Coligan, J.E. et al., Current Protocols in Immunology, pp 6.9.1-6.9.8, Current Protocols, 1991, Measurement of antiviral activity induced by interferon $\alpha$ , $\beta$ , and $\gamma$ .	
		Daugherty, B.L. et al., Nucleic Acids Res. 19:2471-6, 1991, Polymerase chain reaction facilitates the cloning, CDR-grafting, and rapid expression of a murine monoclonal antibody directed against the CD18 component of leukocyte integrins.	
sc		Dianzani, F. J. Interferon Res. (Special Issue) 109-118, 1992, Interferon treatments: how to use an endogenous system as a therapeutic agent.	
Examiner Signature			Date Considered 4/12/06

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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OF

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*Complete if Known*

Application Number 10/005,438

Filing Date Dec. 3, 2001

First Named Inventor Tse Wen Chang

Group Art Unit 1642

Examiner Name S. UNGAR

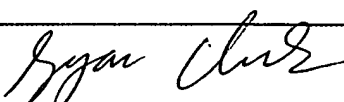
Attorney Docket Number TNX95-2ABB

## **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s).	T 2
EX	-	Evinger, M. and Pestka, S., <i>Methods in Enzymology</i> , 79:362-8, Assay of growth inhibition in lymphoblastoid cell cultures.	
		Goeddel, D.V. <i>et al.</i> , <i>Nature</i> , 290:20-26, 1981, The structure of eight distinct cloned human leukocyte interferon dDNAs	
		Guterman, J., <i>Proc. Nat. Aca. Sci.</i> 91:1198-1205;1994, Cytokine therapeutics: lessons from interferon $\alpha$ .	
		Johns, T.G. <i>et al.</i> , <i>Cancer Res.</i> , 50:4718-23, 1990, Pharmacokinetics, tissue distribution, and cell localization of [ $^{35}$ S] methionine-labeled recombinant human and murine $\alpha$ interferons in mice.	
		Kabat, E.A. <i>et al.</i> , <i>Sequences of proteins of immunological interest</i> , pp 1582-98, NIH, 1991	
		Kurschner, C. <i>et al.</i> , <i>J. Immunol.</i> 149:4096-4100, 1992, IFN- $\gamma$ receptor-Ig fusion proteins.	
		Mordenti, J. <i>et al.</i> , <i>Nature</i> , 337:525-31, 1989, Designing CD4 immunoadhesins for AIDS therapy.	
		Quesada, J.R. <i>et al.</i> , <i>J. Clin. Oncol.</i> 4:234-243, 1986, Clinical toxicity of interferons in cancer patients: a review	
		Roche Labs, Referon A, Schering, Intron A, <i>Physicians' Desk Reference</i> , 47 edition, 1993, pp. 2006-2008, 2194-2201.	
		Roitt, I., <i>Essential Immunology</i> , 7 <sup>th</sup> edition, 1991, Blackwell Scientific Publications, pp. 45-51, Immunoglobulin classes and subclasses.	
		Saiki, R.K. <i>et al.</i> , <i>Science</i> , 239:487, 1988, Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase.	
		Sambrook, J. <i>et al.</i> , <i>Molecular cloning</i> , 1989, Cold Spring Harbor Laboratory Press, pp. 16.28-16.29.	
SC		Schein, C.H. and Noteborn, H.M., <i>Bio/technology</i> , 6:291-294, 1988, Formation of soluble recombinant proteins in <i>Escherichia coli</i> is favored by lower growth temperature.	
Examiner Signature	[Signature]		Date Considered 4/12/06

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		Attorney Docket Number TNX95-2ABB	

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Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s).	T 2
SE		✓ Scorer, C.A. <i>et al.</i> , <i>Gene</i> , 136:111-9, 1993, The intracellular production and secretion of HIV-1 envelope protein in the methylotrophic yeast <i>Pichia pastoris</i> .	
I		✓ Strander, H. <i>Adv. Cancer Res.</i> 46:1-265, 1986, Interferon treatment of human neoplasia.	
I		✓ Tabata, Y. <i>et al.</i> , <i>Cancer Res.</i> 51:5532-8, 1991, Effects of recombinant alpha-interferon-gelatin conjugate on in vivo murine tumor cell growth.	
SE		✓ Von Gabain, A., <i>et al.</i> , <i>Eur. J. Biochem.</i> 190:257-61, 1990, Three human interferon- $\alpha$ 2 subvariants disclose structural and functional differences.	
		<del>Weissmann, C. and Weber, H. <i>Prog. Nuc. Acid Res. Mol. Biol.</i> 33:251-300, 1986, The interferon genes.</del>	
SE		✓ Wilkinson, D.L. and Harrison, R.G., <i>Bio/technology</i> , 9:443-448, 1991, Predicting the solubility of recombinant proteins in <i>Escherchia coli</i> .	
I		✓ Zoon, K.C. <i>Interferon</i> , 9:1-12, 1987, Human interferons: structure and function.	
I		✓ Physicians' Desk Reference 2194-2201	
SE		✓ Capon, D. <i>et al.</i> , <i>Nature</i> , 337:525-531, 1989, Designing CD4 Immuno adhesions for AIDS Therapy	
Examiner Signature			Date Considered 4/12/06

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